

**CLAIMS**

What is claimed is:

- 1           1.       A system for capturing and embedding high-resolution still image data in  
2       a sequence of video data, comprising:  
3           an image capture element for capturing a sequence of video data during a first  
4       mode of operation, the sequence of video data captured at a first resolution;  
5           a user interface for entering into a second mode of operation, the second mode  
6       of operation being at a second resolution, the second resolution being greater than the  
7       first resolution; and  
8           a memory for storing data captured at the second resolution.
- 1           2.       The system of claim 1, wherein the second mode of operation captures  
2       data corresponding to still image data.
- 1           3.       The system of claim 2, wherein the still image data is embedded between  
2       frames of video data.
- 1           4.       The system of claim 2, wherein the still image data has a resolution of at  
2       least 640 pixels by 480 pixels.
- 1           5.       The system of claim 1, wherein the user interface allows toggling  
2       between the first resolution and the second resolution.

1           6.     The system of claim 5, wherein the toggling between the first resolution  
2     and the second resolution occurs using a single control on the user interface.

1           7.     The system of claim 1, wherein the sequence of video data captured  
2     during the first mode of operation is divided into video frames and data generated at the  
3     second resolution is divided into still frames, and the video frames and the still frames  
4     alternate sequentially.

1           8.     The system of claim 7, wherein the video frames and the still frames  
2     alternate non-sequentially.

1           9.     A method for capturing and embedding high-resolution still image data in  
2     a sequence of video data, comprising:

3                 capturing a sequence of video data during a first mode of operation, the  
4     sequence of video data captured at a first resolution;

5                 entering into a second mode of operation, the second mode of operation being at  
6     a second resolution, the second resolution being greater than the first resolution;

7                 capturing data at the second resolution; and

8                 storing the data captured at the second resolution.

1           10.    The method of claim 9, wherein the second mode of operation captures  
2     data corresponding to still image data.

1           11.    The method of claim 10, further comprising embedding the still image  
2   data between frames of video data.

1           12.    The method of claim 10, wherein the still image data has a resolution of  
2   at least 640 pixels by 480 pixels.

1           13.    The method of claim 9, further comprising toggling between the first  
2   resolution and the second resolution.

1           14.    The method of claim 13, wherein the toggling between the first  
2   resolution and the second resolution occurs using a single control on the user interface.

1           15.    The method of claim 9, further comprising:  
2           dividing the sequence of video data captured during the first mode of operation  
3   into video frames;  
4           dividing the data generated at the second resolution into still frames; and  
5           sequentially alternating the video frames and the still frames.

1           16.    The method of claim 15, wherein the video frames and the still frames  
2   alternate non-sequentially.

1           17.    The method of claim 9, further comprising:  
2           transferring the data stored at the second resolution to a printing device; and  
3           using the data stored at the second resolution to render a photograph.

200020 " 56689001

1           18.    A digital video camera having a system for capturing and embedding  
2   high-resolution still image data in a sequence of video data, comprising:  
3           an image capture element for capturing a sequence of video data during a first  
4   mode of operation, the sequence of video data captured at a first resolution;  
5           a user interface for entering into a second mode of operation, the second mode  
6   of operation being at a second resolution, the second resolution being greater than the  
7   first resolution; and  
8           a memory for storing data captured at the second resolution.

1           19.    The system of claim 18, wherein the second mode of operation captures  
2   data corresponding to still image data.

1           20.    The system of claim 19, wherein the still image data is embedded  
2   between frames of video data.

1           21.    The system of claim 19, wherein the still image data has a resolution of at  
2   least 640 pixels by 480 pixels.

1           22.    The system of claim 18, wherein the user interface allows toggling  
2   between the first resolution and the second resolution.

1           23.    The system of claim 22, wherein the toggling between the first resolution  
2   and the second resolution occurs using a single control on the user interface.

1           24. A computer readable media having a program for capturing and  
2 embedding high-resolution still image data in a sequence of video data, the program  
3 comprising logic for:

4           capturing a sequence of video data during a first mode of operation, the  
5 sequence of video data captured at a first resolution;

6           entering into a second mode of operation, the second mode of operation being at  
7 a second resolution, the second resolution being greater than the first resolution;

8           capturing data at the second resolution; and

9           storing the data captured at the second resolution.

1           25. The program of claim 24, wherein the second mode of operation captures  
2 data corresponding to still image data.

1           26. The program of claim 25, further comprising logic for embedding the still  
2 image data between frames of video data.

1           27. The program of claim 25, wherein the still image data has a resolution of  
2 at least 640 pixels by 480 pixels.

1           28. The program of claim 24, further comprising logic for toggling between  
2 the first resolution and the second resolution.

1           29. The program of claim 28, wherein the toggling between the first  
2 resolution and the second resolution occurs using a single control on the user interface.

1           30.     The program of claim 24, further comprising:  
2           logic for dividing the sequence of video data captured during the first mode of  
3           operation into video frames;  
4           logic for dividing the data generated at the second resolution into still frames;  
5           and logic for sequentially alternating the video frames and the still frames.

1           31.     The program of claim 30, wherein the video frames and the still frames  
2           alternate non-sequentially.

1           32.     The program of claim 24, further comprising:  
2           logic for transferring the data stored at the second resolution to a printing  
3           device; and  
4           logic for using the data stored at the second resolution to render a photograph.